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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/626,242

DATE: 11/16/2001

TIME: 08:59:56

Input Set : A:\271592.app

Output Set: N:\CRF3\11162001\I626242.raw

3 <110> APPLICANT: FRENKEN, LEO G.
 4 VAN DER LOGT, CORNELIS P.
 6 <120> TITLE OF INVENTION: METHOD FOR PRODUCING ANTIBODY FRAGMENTS
 8 <130> FILE REFERENCE: 060113-0271592
 10 <140> CURRENT APPLICATION NUMBER: 09/626,242
 11 <141> CURRENT FILING DATE: 2000-09-27
 13 <150> PRIOR APPLICATION NUMBER: PCT/EP99/00481
 14 <151> PRIOR FILING DATE: 1999-01-25
 16 <150> PRIOR APPLICATION NUMBER: EP 98300525.7
 17 <151> PRIOR FILING DATE: 1998-01-26
 19 <160> NUMBER OF SEQ ID NOS: 18
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
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 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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 50 <213> ORGANISM: Artificial Sequence
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 53
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:
 65 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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 71 <210> SEQ ID NO: 5
 72 <211> LENGTH: 117
 73 <212> TYPE: PRT

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74 <213> ORGANISM: Lama glama
76 <400> SEQUENCE: 5
77 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
78   1       5       10       15
80 Phe Leu Arg Phe Ser Cys Ala Ala Leu Gly Ala Arg Phe Ser Ser Asp
81       20       25       30
83 Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
84       35       40       45
86 Ala Ala Ser Ser Trp Asn Gly Asp Thr Thr His Tyr Ser Asp Ser Val
87       50       55       60
89 Glu Gly Gln Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Ser Tyr
90  65       70       75       80
92 Leu Gln Met Asn Arg Leu Gln Pro Glu Asp Thr Ala Val Tyr Tyr Cys
93       85       90       95
95 Arg Trp Cys Arg Pro Pro Arg Pro Lys Tyr Trp Gly Gln Gly Thr Gln
96       100      105      110
98 Val Thr Val Ser Ser
99       115
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 115
104 <212> TYPE: PRT
105 <213> ORGANISM: Lama glama
107 <400> SEQUENCE: 6
108 Gln Val Gln Leu Gln Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Ser
109   1       5       10       15
111 Phe Leu Ser Phe Ser Cys Thr Ala Ser Gly Arg Thr Phe Ser Asn Tyr
112       20       25       30
114 Ala Met Gly Trp Phe Arg Gln Ala Ser Gly Asn Gln Arg Ala Phe Val
115       35       40       45
117 Ala Ala Ile Gly Arg Asn Gly Asp Thr His Tyr Ile Asp Ser Val Lys
118       50       55       60
120 Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Asp Thr Val Tyr Leu
121  65       70       75       80
123 Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Arg
124       85       90       95
126 Ile Trp Val Gly Ala Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
127       100      105      110
129 Val Ser Ser
130       115
133 <210> SEQ ID NO: 7
134 <211> LENGTH: 116
135 <212> TYPE: PRT
136 <213> ORGANISM: Lama glama
138 <400> SEQUENCE: 7
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140   1       5       10       15
142 Phe Leu Arg Phe Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Arg Tyr
143       20       25       30
145 Thr Met Gly Trp Phe Arg Gln Ala Pro Gly Asn Glu Arg Lys Phe Val

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146          35          40          45
148 Ala Ala Val Ser Thr Ser Gly Asn Thr His Tyr Thr Gly Ser Val Lys
149          50          55          60
151 Gly Arg Phe Thr Ile Phe Arg Gln Asn Ala Lys Asn Thr Val Tyr Leu
152 65          70          75          80
154 Gln Met Ser Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
155          85          90          95
157 Ala Arg Phe Gly Gly Met Asn Trp Lys Tyr Trp Gly Gln Gly Ile Gln
158          100          105          110
160 Val Thr Val Ser
161          115
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 121
166 <212> TYPE: PRT
167 <213> ORGANISM: Lama glama
169 <400> SEQUENCE: 8
170 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Pro
171 1          5          10          15
173 Phe Leu Asn Val Ser Cys Val Val Ser Gly Gly Ile Phe Ser Asp Tyr
174          20          25          30
176 Thr Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Lys Phe Val
177          35          40          45
179 Ala Ala Val Ser Ser Gly Gly Ser Thr His Tyr Thr Gly Ser Val Lys
180          50          55          60
182 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Ala Asn Thr Met Tyr Leu
183 65          70          75          80
185 Gln Met Ser Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
186          85          90          95
188 Ala Ile Val Pro Pro Thr Arg Thr Phe Cys Gly Arg Thr Tyr Trp Gly
189          100          105          110
191 Gln Gly Thr Gln Val Thr Val Ser Ser
192          115          120
195 <210> SEQ ID NO: 9
196 <211> LENGTH: 112
197 <212> TYPE: PRT
198 <213> ORGANISM: Lama glama
200 <400> SEQUENCE: 9
201 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asp
202 1          5          10          15
204 Phe Val Arg Leu Ser Cys Ala Ala Ser Arg Arg Ala Ser Ser Thr Tyr
205          20          25          30
207 Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
208          35          40          45
210 Gly Arg Ile His Arg Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
211          50          55          60
213 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Gln Asn Thr Val Tyr
214 65          70          75          80
216 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
217          85          90          95

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220      100      105      110
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224 <211> LENGTH: 117
225 <212> TYPE: PRT
226 <213> ORGANISM: Lama glama
228 <400> SEQUENCE: 10
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230 1      5      10      15
232 Phe Leu Arg Phe Ser Cys Ala Ala Ser Asn Ala Leu Phe Ser Gly Tyr
233      20      25      30
235 Ala Met Gly Cys Phe Arg Gln Ala Val Gly Lys Glu Arg Glu Phe Val
236      35      40      45
238 Ala Ala Ile Thr Trp Asn Asn Arg Asn Thr His Tyr Ala Asp Ser Val
239      50      55      60
241 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
242 65      70      75      80
244 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
245      85      90      95
247 Thr Ser Gly Met Arg Arg Leu Gly Asp Tyr Trp Gly Gln Gly Thr Gln
248      100      105      110
250 Val Thr Val Ser Ser
251      115
254 <210> SEQ ID NO: 11
255 <211> LENGTH: 124
256 <212> TYPE: PRT
257 <213> ORGANISM: Lama glama
259 <400> SEQUENCE: 11
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261 1      5      10      15
263 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Lys Tyr
264      20      25      30
266 Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
267      35      40      45
269 Ala Gly Ile Ser Thr Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
270      50      55      60
272 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Thr Val Tyr Leu
273 65      70      75      80
275 Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
276      85      90      95
278 Ala Gly Arg Arg Ile Ser Ser Ser Tyr Tyr Ser Arg Gly Leu Tyr Ala
279      100      105      110
281 Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
282      115      120
285 <210> SEQ ID NO: 12
286 <211> LENGTH: 124
287 <212> TYPE: PRT
288 <213> ORGANISM: Lama glama
290 <400> SEQUENCE: 12

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291 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
292   1           5           10           15
294 Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Arg Ser Phe Ser Asn Phe
295           20           25           30
297 Ala Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val
298           35           40           45
300 Ala Gly Ile Ser Trp Arg Gly Gly Arg Thr Tyr Tyr Ala Ala Ser Val
301           50           55           60
303 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Asn Thr Val Tyr
304   65           70           75           80
306 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
307           85           90           95
309 Ala Thr Ala Tyr Gly Gln Gly Pro Ile Thr Val Pro Lys Phe Tyr Thr
310           100          105          110
312 Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
313           115          120

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316 <210> SEQ ID NO: 13

317 <211> LENGTH: 121

318 <212> TYPE: PRT

319 <213> ORGANISM: Lama glama

321 <400> SEQUENCE: 13

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322 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
323   1           5           10           15
325 Cys Val Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Arg Tyr
326           20           25           30
328 Thr Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
329           35           40           45
331 Ala Ala Ile Ser Trp Arg Ser Gly Gly Ile Lys Ile Tyr Gly Asp Ser
332           50           55           60
334 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Thr Val
335   65           70           75           80
337 Tyr Val Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
338           85           90           95
340 Cys Asn Ser Arg Pro Arg Ile Tyr Arg Gly Asn Val Val Tyr Trp Gly
341           100          105          110
343 Gln Gly Thr Gln Val Thr Val Ser Ser
344           115          120

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347 <210> SEQ ID NO: 14

348 <211> LENGTH: 34

349 <212> TYPE: DNA

350 <213> ORGANISM: Artificial Sequence

352 <220> FEATURE:

353 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

354 oligonucleotide

356 <400> SEQUENCE: 14

357 ggcccgagccg gccatggccc aggtgcagct gcag

34

360 <210> SEQ ID NO: 15

361 <211> LENGTH: 11

362 <212> TYPE: PRT

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/626,242

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